

3-Aryl-6-indolyl-1,2,4-triazine-5(4H)-ones as fluorescent chemosensors for nitroaromatic compounds

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Abstract

Corresponding fluorescent 3-aryl-1-acyl-1,6-dihydro-6-indolyl-1,2,4-triazine-5(4H)-ones were synthesized with using of nucleophilic substitution of hydrogen methodology by means of reaction 3-aryl-1,2,4-triazine-5(4H)-ones with indols in the presence of naproxen. Obtained compounds demonstrate intensive fluorescence quenching in the presence of nitroaromatic compounds (2,4-dinitrotoluene, 2,4,6-trinitrophenol (picric acid)).